

**Water Sample Test Comparison/Mississippi County Well #4**

| Nutrients  | CWA      |           |           |           |           |          |           |          |
|------------|----------|-----------|-----------|-----------|-----------|----------|-----------|----------|
|            |          | May. 2020 | Oct. 2020 | May. 2021 | Oct. 2021 | May 2022 | Oct. 2022 | May 2023 |
| PH         |          | 6.3       | 6.5       | 6.2       | 6.18      | 6.49     | 6.36      | 6.44     |
| NH4N ppm   | 2.00 ppm |           |           |           |           |          |           |          |
| NH3N ppm   |          | 0.15      | 1.01      | 0.65      | 0.14      | 3.36     | 0.49      | 0.4      |
| N03N ppm   | 10.00ppm | 3.31      | 2.7       | 2.35      | 2.01      | 0.01     | 5.44      | 0.32     |
| Phosphrous | 1.00ppm  | 0.01      | 0.05      |           | 0.01      | 0.25     | 0.01      | 0.03     |
| Potassium  |          | 1.7       | 2         | 1.6       | 2.02      | 1.96     | 2.40      | 1.6      |
| Calcium    |          | 12.8      | 15.2      | 11.1      | 10.24     | 11.71    | 13.30     | 46.5     |
| Magnesium  |          | 3.9       | 6.5       | 5.7       | 4.97      | 5.48     | 5.90      | 10.7     |
| SO4-S      |          | 12        | 3.75      | 8.2       | 9.72      | 29.40    | 6.70      | 7.8      |
| Arsenic-Ar |          | <.001     | <0.0010   |           |           |          |           |          |

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|------------|-----|-----------|----------|-----------|----------|-----------|----------|--|
|            |     | Oct. 2023 | May 2024 | Oct. 2024 | May 2025 | Oct. 2025 | May 2026 |  |
| PH         |     | 6.7       | 7.44     | 6.81      | 7.12     | 7.92      | 6.54     |  |
| NH4N ppm   |     |           |          |           |          |           |          |  |
| NH3N ppm   |     | 0.44      | 1.41     | 0.23      | 2.42     | 0.56      | 1.08     |  |
| N03N ppm   |     | 4.28      | 3.17     | 4.95      | 2.41     | 15.06     | 0.14     |  |
| Phosphrous |     | 0.01      | 0.01     | 0.01      | 0.01     | 0.01      | 0.01     |  |
| Potassium  |     | 1.7       | 1.65     | 1.94      | 2.38     | 2.61      | 5.82     |  |
| Calcium    |     | 9         | 10.41    | 10.23     | 11.16    | 16.54     | 57.34    |  |
| Magnesium  |     | 4.8       | 5.33     | 5.51      | 5.49     | 8.11      | 28.02    |  |
| SO4-S      |     | 7.6       | 13.8     | 9.3       | 6.02     | 7.09      | 7.09     |  |
| Arsenic-Ar |     |           |          |           |          |           |          |  |

CWA = Clean Water Act Threshold